

AMENDMENTS TO THE SPECIFICATION

At Paragraphs [11], [12], [14], [15], [21], [22], [32] AND [37]

Please amend paragraphs [11], [12], [14], [15], [21], [22], [32] AND [37] of the specification as follows:

[11] Certain embodiments of the invention may include a method and system for encoding and decoding of video and non-video information. The method for encoding and decoding video and non-video information may include creating a ~~second~~ first symbol from a ~~first~~ codeword. A TERC4 symbol, TMDS symbol and/or a guard band symbol may be generated from a portion or all of the ~~second~~ first symbol, and may be part of a transmitted signal. The ~~first~~ codeword may be directly encoded into a TMDS codeword. In another aspect of the invention, TMDS encoding of at least a portion of the ~~second~~ first symbol may generate a TERC4 symbol and/or a guard band symbol. The generated TERC4 symbol and the guard band symbol may be encoded so that they are combined within a single symbol for transmission.

[12] In another aspect of the invention, the ~~first~~ codeword may be generated from a portion or all of a ~~third~~ second symbol containing a TERC4 symbol and/or a guard band symbol. The generation of the codeword may occur when the ~~third~~ second symbol is received by a receiver or a receiver portion of a transceiver. TMDS decoding of at least a portion of the received signal may generate the ~~first~~ codeword. Similarly, TMDS decoding of a portion or all of the received signal, which may include the ~~third~~ second symbol, may generate the ~~second~~ first symbol. At least a portion of the ~~second~~ first symbol may be decoded or mapped to generate the ~~first~~ codeword. Notwithstanding, the ~~first~~ codeword may be a 4-bit

pre-TERC4 codeword, while the second first symbol may be an 8-bit pre-TMDS symbol.

[14] The invention may also provide a system for encoding and decoding video and non-video information. The system for encoding and decoding video and non-video information may include a first encoder adapted to encode a first codeword into a second first symbol. A second encoder may generate a TMDS symbol, TERC4 symbol and/or a guard band symbol from a portion or all of the second first symbol. The second encoder may be adapted to directly encode the first codeword into a TMDS symbol. The second encoder may encode at least a portion of the second first symbol to generate a TERC4 symbol and/or a guard band symbol. The second encoder may generate the TERC4 symbol and the guard band symbol so that they are combined within a single symbol for transmission. The first and second encoders may be part of the same transmitter.

[15] In another aspect of the invention, a receiver may be configured to generate the first codeword from a portion or all of a third second symbol containing a TERC4 symbol and/or a guard band symbol. The generation of the first codeword may occur when the third second symbol is received by a receiver or a receiver portion of a transceiver. A second decoder may be adapted to TMDS decode at least a portion of the received signal to generate the first codeword. Similarly, the first decoder may TMDS decode a portion or all of the received signal, which may include the third second symbol, in order to generate the second first symbol. The first decoder may be adapted to decode or map at least a portion of the second first symbol to generate the first codeword. Notwithstanding, the first codeword may be a 4-bit pre-TERC4 codeword, while the second first symbol may be an 8-bit pre-TMDS symbol.

[21] Aspects of the invention may include a method and system for encoding and decoding video and non-video information. In accordance with an embodiment of the invention, encoding and decoding video and non-video information may include creating a ~~second~~ first symbol from a ~~first~~ codeword. A TERC4 symbol, TMDS symbol and/or a guard band symbol may be generated from a portion or all of the ~~second~~ first symbol, and may be part of a transmitted signal. The ~~first~~ codeword may be directly encoded into a TMDS codeword without requiring additional processing. In another aspect of the invention, TMDS encoding a portion or all of the ~~second~~ first symbol may generate a TERC4 symbol and/or a guard band symbol. The generated TERC4 symbol and the guard band symbol may be encoded so that they are combined within a single symbol for transmission.

[22] In another aspect of the invention, the ~~first~~ codeword may be generated from a portion or all of a ~~third~~ second symbol containing a TERC4 symbol and/or a guard band symbol. The generation of the codeword may occur when the ~~third~~ second symbol is received by a receiver or a receiver portion of a transceiver. TMDS decoding of at least a portion of the received signal may generate the ~~first~~ codeword. Similarly, TMDS decoding of a portion or all of the received signal, which may include the ~~third~~ second symbol, may generate the ~~second~~ first symbol. At least a portion of the ~~second~~ first symbol may be decoded or mapped to generate the ~~first~~ codeword. Notwithstanding, the ~~first~~ codeword may be a 4-bit pre-TERC4 codeword, while the ~~second~~ first symbol may be an 8-bit pre-TMDS symbol.

[32] In accordance with another embodiment of the invention, the system for encoding and decoding video and non-video information as illustrated in FIG. 1,

may include a first encoder 104 adapted to encode or map a first codeword into a second first symbol. A second encoder block 108 may be adapted to generate a TERC4 symbol, TMDS symbol and/or a guard band symbol from a portion or all of the second first symbol, if the TERC4 symbol, the TMDS symbol and/or the guard band symbol is part of a transmitted signal. The second encoder block 104 may encode the TERC4 symbol and the guard band symbol so that they are part of a single symbol. The second encoder block 108 may also TMDS encode a portion or all of the first codeword to generate a TMDS symbol for the transmitted signal. MUX 106 may select whether TMDS encoder block 108 encodes the first code word or the second first symbol. The first encoder block 104 may also TMDS encode a portion or all of the second first symbol to generate a TERC4 and/or a guard band symbol.

[37] Decoder 204 may be adapted to decode a TERC4 symbol and/or a guard band symbol from a portion or all of a third second symbol received from the TMDS decoder block 208 of receiver 200. The TMDS decoder block 208 may be adapted to TMDS decode a portion or all of the received signal to generate a first codeword which may be directly transferred via DEMUX 206 to HDCP block 202 for processing. The decoder block 208 may also decode a portion or all of the received signal to generate a second first symbol that may be similar to the second first symbol generated by transmitter 100. Decoder block 204 may be configured to decode or map the second first symbol in order to generate a first codeword that may be similar to the first codeword generated by transmitter 100. The first codeword may be a 4-bit pre-TERC4 codeword, while the second first symbol may be an 8-bit pre-TMDS symbol.